

REMARKS

At the outset, the Examiner is thanked for the thorough review and consideration of the pending application. The Office Action dated October 5, 2004 has been received and its contents carefully reviewed.

By this Amendment, Applicants amend claims 1-3, 13, 21, 26, 29, 32 and 33, and cancel claims 22-24, 28 and 31 without prejudice or disclaimer. In addition, Applicants add new claims 34-36. Accordingly, claims 1-21, 25-27, 29-30 and 32-36 are pending in the present application. Reexamination and reconsideration of the pending claims are respectfully requested.

As a preliminary matter, Applicants note that the Examiner did not specify the status of claims 9-12 and 18-20 in the outstanding Office Action. Accordingly, Applicants respectfully request the Examiner to provide the status of the claims in the next Office Action.

In the Office Action, the Examiner rejected claims 1, 4-6, 13-17 and 21-33 under 35 U.S.C. § 102(e) as being anticipated by Tone (U.S. Patent No. 6,404,512)¹, and rejected claims 2, 3, 7 and 8 under 35 U.S.C. § 103(a) as being unpatentable over Tone in view of Hiroki (U.S. Patent No. 6,771,238). Applicants respectfully traverse these rejections.

Claim 1 is allowable over the cited references in that claim 1 recites a combination of elements including, for example, "the gamma voltage correction apparatus... a column driver connected to the display panel, wherein the column driver receives the video data and the clock from the display controller and the n gamma voltages from the gamma voltage correction apparatus, and then corrects the video data using the n gamma voltages and applies the corrected video data to the data lines." None of the cited references, singly or in combination, teaches or suggests at least this feature of the claimed invention.

Applicants respectfully submit that in order to establish a prima facie case of obviousness under 35 U.S.C. § 103, the prior art references when combined must at least teach or suggest all the claim elements. Accordingly, Applicant respectfully submits that claim 1 and claims 2-8, which depend therefrom, are allowable over the cited references.

¹ In the Office Action on page 2, the Examiner cites Tone with U.S. Patent No. 6,046,712. However, because U.S. Patent No. 6,046,712 is not issued to Tone, Applicants assume that the Examiner meant to refer to U.S. Patent No. 6,404,512.

In addition, the Examiner states in the Office Action on page 2, "Tone teaches an apparatus for providing a gamma voltage correcting apparatus for a liquid crystal display (column 17, lines 60-62; column 59-67, figure 17 at 615a)..." Applicants disagree.

Applicants respectfully submit that 615a in Fig. 17 disclosed in Tone is a data entry unit, that is an input terminal, which uses an LCD device. See Tone, for example, Col. 13, lines 28-52. Unlike Tone, video data modulated by a gamma voltage correction apparatus are applied to the data lines of a display device such as an LCD device via a column driver in the present application.

Claim 13 is allowable over the cited references in that claim 13 recites a combination of elements including, for example, "...responding to the one set of the gamma data for the selected mode to generate n gamma voltages (wherein n is an integer) having a different voltage level; correcting the video data using the n gamma voltages; and applying the corrected video data to the data lines." None of the cited references, singly or in combination, teaches or suggests at least this feature of the claimed invention. Accordingly, Applicant respectfully submits that claim 13 and claims 14-17, which depend therefrom, are allowable over the cited references.

Claim 21 is allowable over the cited references in that claim 21 recites a combination of elements including, for example, "a means having a multi-channel digital-to-converter (DAC) for generating a plurality of gamma reference voltages according to the selected gamma data, the DAC further including a reference voltage generator for receiving a supply voltage and generating a plurality of reference voltages and a data receiver for receiving the reference voltages and the selected gamma data and generating therefrom the plurality of gamma reference voltages... wherein each of the plurality of modes corresponds to a different source video generator for providing video data to the LCD." None of the cited references, singly or in combination, teaches or suggests at least this feature of the claimed invention. Accordingly, Applicant respectfully submits that claim 21 and claims 25-27, which depend therefrom, are allowable over the cited references.

Claim 29 is allowable over the cited references in that claim 29 recites a combination of elements including, for example, "...generating a plurality of gamma reference voltages according to the selected gamma data; generating a plurality of gamma voltages from the plurality of gamma reference voltages; correcting the video data using the gamma voltages; and

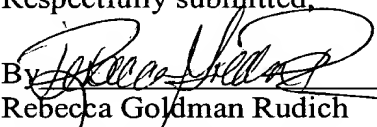
applying the corrected video data to the data lines." None of the cited references, singly or in combination, teaches or suggests at least this feature of the claimed invention. Accordingly, Applicant respectfully submits that claim 29 and claims 30, 32 and 33, which depend therefrom, are allowable over the cited references.

Applicants believe the foregoing amendments place the application in condition for allowance and early, favorable action is respectfully solicited. If for any reason the Examiner finds the application other than in condition for allowance, the Examiner is requested to call the undersigned attorney at (202) 496-7500 to discuss the steps necessary for placing the application in condition for allowance. All correspondence should continue to be sent to the below-listed address.

If these papers are not considered timely filed by the Patent and Trademark Office, then a petition is hereby made under 37 C.F.R. §1.136, and any additional fees required under 37 C.F.R. §1.136 for any necessary extension of time, or any other fees required to complete the filing of this response, may be charged to Deposit Account No. 50-0911. Please credit any overpayment to deposit Account No. 50-0911. A duplicate copy of this sheet is enclosed.

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Respectfully submitted,

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